

GEL PERIN, N.I., doktor tekhn.nauk; SOIOPENKOV, K.N., kand.tekhn.nauk; ARSEN'YEV, D.M.

Continuous sulfonation of synthetic aliphatic alcohols. Mnsl.-zhir. prom. 24 no.10:22-26 58. (MIRA 11:10)

1. Moskovskiy institut tenkoy khimicheskoy tekhnologii im. M.V.
Lomonosova (for Gel'perin, Solopenkov). 2. Gosudarstvenmyy nauchnotekhnicheskiy kontrol' Soveta Ministrov RSFSR (for Arsen'yev).

(Alcohols) (Sulfonation)

MUHASHKIN, A. (Moskva); SOLOFENKOV, V. (Moskva)

Lenin rooms. Fozh.delo 6 no.5:18 My '60. (MIFA 13:8)

(Firemen) (Adult education)

5:4110 15.2220

67665

SOV/126-8-6-13/24

AUTHORS:

Matyushenko, N.N., Yefimenko, L.N. and Solopikhin, D.P

TITLE:

Existence of the Silicide W3Si

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 6,

pp 878-880 (USSR)

ABSTRACT: The authors point out that the question of the existence of W3Si has not been settled (Ref 2,3) in spite of the considerable volume of published X-ray data on the silicides of high-melting VI group metals. The conversion of higher into lower molybdenum or tungsten silicides which occurs when the surface-silicided metals are heated to about 1700°C is accomplished with the participation of a chemical reaction governed by redistribution of s- and d-electrons in the metals. The authors give this reaction in terms of the number of molecules in the unit cell and using published (Ref 1) X-ray data, calculate the volume percentage of the phases (Table 1). From considerations of isomorphism the authors calculated the WaSi lattice parameter $a = 4.910 \pm 0.01 \text{ Å}$ and prepared specimens in which this phase could be observed metallographically and by X-ray diffraction. To gsten (99% W) cylinders 20 mm in diameter were saturated to a depth of about

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Existence of the Silicide W₃Si

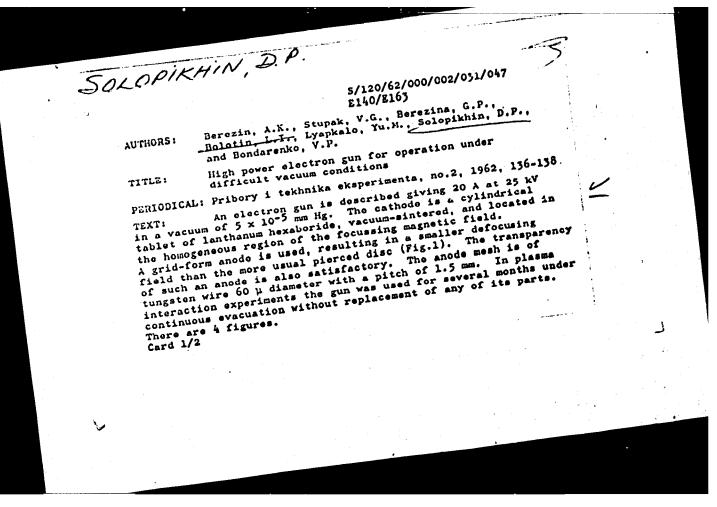
100 microns, with silicon (99% Si) in a neutral atmosphere to give two phases: WSi2 and W5Si3 (Fig 1). On heating to 1700° C in air W3Si was found at the W/W5Si3 boundary (Fig 2), from which a diffraction pattern (Fig 3) was obtained. This phase had a texture due to that of the tungsten. The authors compare (Table 2) the experimental and calculated crystallographic values for W5Si. The lattice parameter was found to be $a = 4.910 \pm 0.005$ Å, the X-ray density d = 16.2 g/cm³. There are $\frac{1}{3}$ figures, 2 tables and 3 references, 2 of which are Soviet and 1 English.

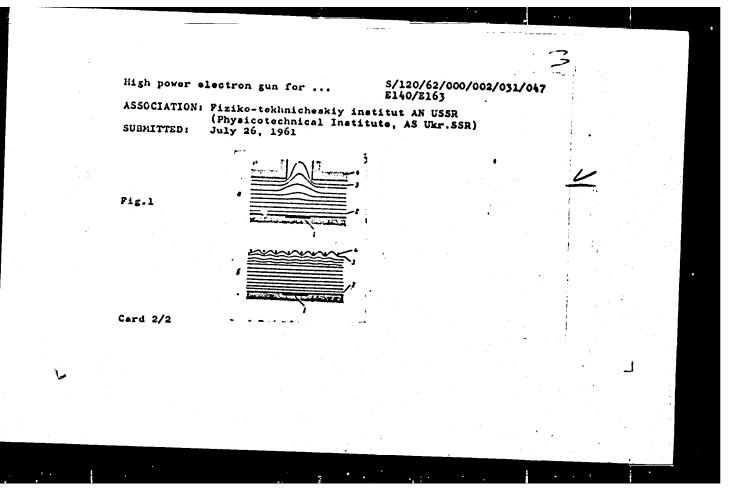
ASSOCIATION:Firiko-tekhnicheskiy institut AN USSR (Pnysico-Technical Institute, AS UkrSSR)

W

SUBMITTED: June 26, 1959

Card 2/2





Center of public attention. Posh.delo 5 no.7:13-14 Jy 159. (MIRA 12:9)

1. Inspektor Otdela posharnoy okhrany. Khersonskogo oblispolkoma. (Kherson Province--Motion-picture projection---Safety measures)

SOLOPIY, Ivan Stepanovich; SHKEL*, Georgiy Konstantinovich; KOLOMIYTSEV,
A.D., otv.red.; SHKLYAR, S.Ya., tekhn.red.

[The KS-10 scraper conveyers] Skrebkovye konveiery KS-10.

Moskva, Ugletekhizdat, 1959. 38 p. (MIRA 12:8)

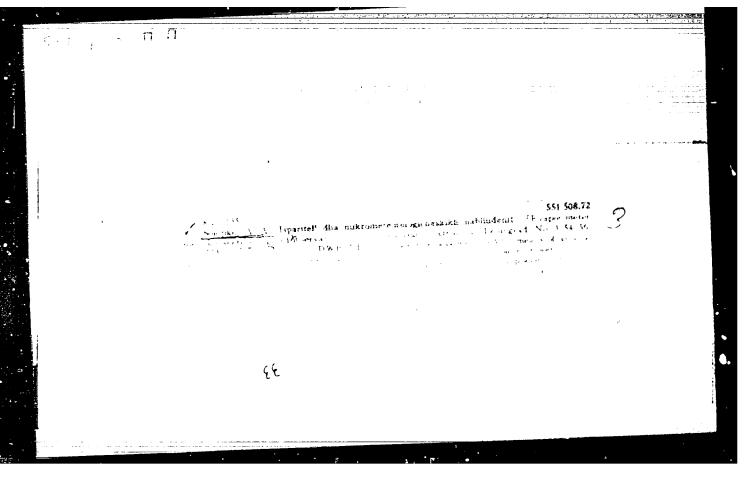
(Scrapers) (Conveying machinery)

,

MALOV, R.V., kand. tokhn. mauk; GARGALA, E.V., Insh., IGNATOVICE, I.V.; SOLOPIY, I.S., insh.

Developing and testing exhaust gas neutralizers for diesel-electric powered trucks. Gor. zhur. no. 12:70-92 D 165. (MIRA 18:12)

1. TSentral'nyy nauchno-isaledovatel'akiy i konstruktorakiy institut toplivnoy apparatur; avtotraktornykh i atatsionarnykh dvigateley (for Malov, Gargala, Ignatovich). 2. Gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut ugol'nogo mashinostroyeniya (for Sclopiy).



SOLOPKO AA.

AUTHOR:

TITLE:

PA - 3375 POGREBNYAK, P.S., Member of the Academy of Science of the Ukrainian SSR, IL'KUN, G.M., SOLOPKO, A.A. The Registration of Water Expenditure by Forests with the Help of the Evaporation Gradient. (Unhet rashkoda vlagi leson po

PERIODICAL:

gradientu isparyayameti, Russian) Doklady Akademii Mauk SSSR, 1957, Vol 113, Nr 2, pp 454 - 457

ABSTRACT:

In soil science, in the physiology of plants, and in forestry two methods of registering the transpiration of wood plants

1) an indirect one - the ground balance method (Vycotskiy) and have come into use:

Although they are sufficiently exact and the difference of their 2) a direct, physiological one (Ivanov). results does not exceed + 5 %, they are technically complicated and require too intense manipulation. The recently elaborated gradient measuring of the diffusion transformation of water vapor and the determination of the coefficient of the turbulent diffusion were not satisfactory. The last mentioned author sur. gested taking the evaporation capacity in form of an exponent which integrates the factors causing the evaporation as basis of the gradient method instead of the specific humidity and of the coefficient of the turbulent diffusion. The elementary case

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APPROVED FOR RELEASE: 08/25/2000

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The Registration of Water Expenditure by Forests PA - 3375 with the Help of the Evaporation Gradient.

is based on the hypothesis that the evaporation process of the active surface of the investigated object is proportional to the difference of the evaporation capacity in two different heights between which the diffusion exchange takes place. A paper filter of 25 cm2 was chosen as evaporation surface. The authors investigated one year old red pine seedlings and one year old stand of Canadian poplars, moreover 4 year old stands of pine and red oak groups. The evaporators were located to in the leafiest parts of the trees and 1,5 m above them. Out off branches served as control according to Ivanov. From schedule 2 it is evident that the results of both methods are close to each other. In further investigations an additional pair of the gradient apparatuses of A.A.Solopko was used at two points: 1) open on the ground surface, 2) at the same height, covered by tar paper. In the summer of 1956 single standing pines, birchtrees and oaks, 10 - 15 years old, were investigated. Transpiration was computed by means of the formula:

 $T = \pi RLU - \pi R^2 U_0 = \pi R(1U \cdot RU_0),$

where R - is the radius of the lower top cross-section and 1 - the cone constituent. Schedule 3 proves the applicability of this method. In a dense stand there is no necessity of measuring the tops of the trees. Transpiration conditions in a forest are

Card 2/3

The Registration of Water Expenditure by Forests PA - 3375 with the Help of the Evaporation Gradient.

different to those of a single tree: in open land the gradient of the evaporation capacity increases from 1 - 2m following a straight line. In the vertical profile of the forest there are two minima of the evaporation capacity: in the air layer near to the ground and inside the top cover. As known, the daily curve of plant transpiration is comparable with the saturation deficiency. In the case under investigation the proportionality between the gradient of the evaporation capacity and the transpiration of the stand is confirmed.

(3 schedules, 6 citations from Slav publications)

ASSOCIATION:

Starosel'sk Biological Station of the Research Institute of the Academy of Science of the Ukrainian SSR

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Library of Congress

Card 3/3

SOV/21-58-2-28/28

Determining the Moisture Discharge From an Orchard Surface by the Vertical Gradient of Evaporation

vals of time.

There are: 1 table, 1 diagram, and 2 Soviet references.

ABSOCIATION:

Ukrainskiy nauchno-is ledovatel'skiy institut gidrotekhniki i melioratsii (Ukrainian Scientific Research Institute of

Hydraulic Engineering and Eelioration)

PRESENTED:

By Member of the AS UkrSSR, P.S. Pogrebnyak

SUBMITTED:

April 19, 1957

NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the trans-

Card 2/2

USCOMM-DC-60469

GALANOV, I.G., otv. red.; MATLAKHOV, S.G., otv. red.; POLESIN, Ya.L., red.; EOGCMOLOV, A.I., red.; ZHELEZNYAKOVA, M.A., red.; ZHIDOVETSKIY, B.V., red.; ZIL'BERSHTEYN, I.A., red.; KANER, I.Ye., red.; KLYUYEVA, Ye.P., red.; KOZLOVA, Ye.I., red.; MAKAHOV, A.D., red.; SAMARTSEV, A.I., red.; SOLOPKO, A.P., red.; TIKHONOV, V.A., red.; VOLKOVA, V.A., ved., red.; ved.

[Safety regulations in the gas industry; regulations obligatory for all ministries, departments, and organizations] Pravila bezopasnosti v gazovom khoziaistve; pravila tions] Nedratel'ny dlia vsekh ministerstv, vedomstv i organizatsii. Perer. i dop. izd. Moskva, Nedra, 1965. 143 p. (MIRA 18:3)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

PINEOIN, G.N., mladshiy nauchnyy sotrudnik; LYSIKOVA, V.N., nauchnyy sotrudnik; PORCHKHIDZE, S.A., nauchnyy sotrudnik; SEMINA, H.A., nauchnyy sotrudnik; SOLOPOV, A.V., nauchnyy sotrudnik; RAIUS, A.I., nauchnyy sotrudnik; STEL MAKH, F.N., nauchnyy sotrudnik; YEFIMOV, P.L., otvetstvennyy red.; PROTOPOPOV, V.S., red.; FLAUM, M.Ya., tekhn. red.

[Manual for the preparation of aerological yearbooks] Bukovodstvo po podgotovke aerologicheskikh ezhegodnikov. Ieningrad, Gidrometeor. izd-vo. Pt.3. [Temperature sounding of the atmosphere] Temperaturnoe zondirovanie atmosfery, 1958, 126 p. (MIRA 11:9)

1. Bussia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Glavnaya geofizicheskaya observatoriya (for Pinegin). 3. TSentral'naya aerologicheskaya observatoriya (for Iysikova, Porchkhidze, Semina, Solopov). 4. Nauchno-issledovatel'skiy institut aeroklimatologii (for Radus, Stel'makh). (Radio meteorology)

DEVYATOVA, V.A.; DEMENT'IEV, N.F.; YELFIMOV, A.V.; KUPYANSKAYA, A.P.;
MAKSIMOVA, A.A.; MARGOLIN, L.M.; RUINEV, G.V.; SIROTOV, K.M.;
SOLOPOV, A.V.

Conferences, meetings, and seminars. Meteor.i gidrol. no.11:68(MIRA 15:12)
70 N 162.
(Hydrology—Congresses) (Meteorology—Congresses)

Basic climatic characteristics of Bunger's "Casis." Meteor.i gidrol.
no.6:36-40 Je '61.

(Bunger Hills, Antarctica—Climate)

Atmospheric fronts in Antarctica. TRUDY TSIP no.115:149-167
(MIRA 16:6)

(Antarctic regions—Atmosphere)

Fruit Culture

Morablems of selection and scientific agriculture in fruit and terry cultivation.

Morablems of selection and scientific agriculture in fruit and terry cultivation.

G. P. Solomov, ed. Reviewed by S. Grundov. Sad i og., o. S. 1982.

Fonthly List of Russian Accessions. Library of Congress. October 1952 UNGLASSIFIED.

- 1. SOLOPOV, G.P.: IVANOV, P.P.
- 2. USSR (600)
- 4. Fruit Culture
- 7. Work practice of the Moscow Regional Fruit and Berry Experiment Station. Dost. sel'khoz. no. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

SOL/POV, G. P.

Moxeow Province - Fruit Culture

Same problems of fruit growing in Moscow Province. Sad i og. no. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

CHARM, C.

[Need za calon (Takin, care of the Smit Carden). Austra, "Lock. renormit,"

[1976. 92 F.

20: Lenthir List of dessian Accessions, Vol. 7, No. 7, Cot. 1976.

SOLOPOV, G. P.

The cultivation of strawberries in the non-chernozem region of the USSR Moskva, Gos. izd-vo selkhoz. lit-ry, 1955. 86 p.

1. Strawberries.

CIA-RDP86-00513R001652310003-0" APPROVED FOR RELEASE: 08/25/2000

SOLOPOV, G.P., red.

[Best fruit and berry varieties] Luchshie sorts plodovoisgodnykh kul'tur. Moskva, 1957. 270 p. (MIRA 13:12)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye sel'akokhozyaystvennoy nauki.

(Fruit trees--Varieties) (Berries--Varieties)

М

Country: USSR Catogory: Cultivated Plants. Fruits. Berries.

.bs Jour: RZhBiol., No 22, 1958, No 100462

.uthor : Solopov, G.P.

77

Inst : Title : Surface Feeding of Cherry with Radioactive

Elements.

Orig Pub: Vostn. s.-kh. nauki, 1957, No 2, 61-66

..bstract: The influence of surface feeding of Vladimirskaya cherry on the yield and quality of
the fruits, was studied in the experiment
carried out at Moscow Fruit and Berry Experiment Station. The leaves of the trees aged
5 years were sprayed with 0.05% H3BO3; 0.08%

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APPROVED FOR RELEASE POS/25/2000ts. CRA'ROP86-00513R001652310003-0"

..bs Jour: RZhBiol., No 22, 1958, No 100462

Zns04; 0.08% ammonium molybdate; 0.05% Cus04; 1% NH₄NO₂; 1% KCl or 1% P_C and also with Ra²²⁷, Zn65 or Co60. 0.5 liters of the solution were expended on each tree. The solution were expended on each tree. The netivity of the radioactive elements comprised: Ra²²⁷¹⁰⁻¹⁰, Co⁶⁰-10-10, Zn653.2 · 10-8 prised: Ra²²⁷¹⁰⁻¹⁰, Co⁶⁰-10-10, Zn653.2 · 10-8 curies to 100 millimeters of the solution. The plants were treated twice - in the middle of May and in the beginning of June. In the calculation of the yield, it was found that with the spraying with N, P and K, the yield of fruits from 1 tree was almost unchanged, and sometimes decreased by 10-30%. ..fter the spraying with Cu, MO, B + Cu and B + Mo

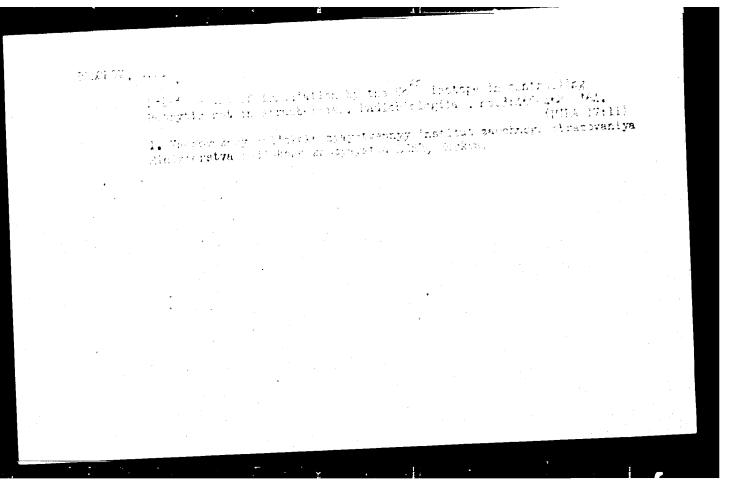
Card : 2/4

SOLOPOV, Grigoriy Platonovich, kand. sel'khoz. nauk; ROZHKOV, M.I., prof., red.; SHULEYKIN, P.A., red.; NAZAROVA, A.S., tekhn. red.

[The orchard bears fruit every year] Sad pledenosit ezhegodno. Pod red. M.I.Rozhkova. Moskva, Izd-vo "Znanie," 1963. 45 p. (Narodnyi universitet kul'tury: Sel'skokhoziaistvennyi fakul'tet, no.1) (Fruit culture)

ZATUCHNAYA, Anna L'vovna; ZUBAREV, Matvey Nikodimovich; PANTELFYEV, Viktor Stepanovich; SEREBRO, rigoriy Yakovlevich; SOLOFOV, Grigoriy Platonovich, kand. sel'khoz. nauk; SELEZNEV, N.G., red.

[Orchards and berry patches] Sady i iagodniki. [By] A.L. Zatuchnaia i dr. Tula, Tul'skoe knizhnoe izd-vo, 1963. (MIRA 17:6)



FRADKIN, I.Z.: SOLOPOV, I.I.

Protection of the roadbed against washouts. Put' i put.khoz. 4 no.9: 6-8 S 160. (MIRA 13:9)

1. Nachal'nik geofizicheskoy stantsii g.Novosibirsk (for Fradkin).
2. Starshiy gidrometeorolog geofizicheskoy stantsii g.Novosibirsk (for Solopov).

(Shore protection) (Railroads--Track)

```
FRADKIN, I.Z.; SOLOPOV, I.I., starshiy gidrometeorolog (g.Movosibirsk)

Snow guards with irregular slots. Put' i put.khos. 4 no.12;
17-19 0 '60. (MIRA 13:9)

1. Nachal'nik geofizicheskoy stantsii, g. Movosibirsk.

(Railroads--Smow protection and removal)
```

FRADKIN, I.Z.; SOLOPOV, I.I.

Time has come to create new types of tree belts, Put' i put.khoz. 7 no.8:43-44 163. (MIRA 16:9)

1. Nachal'nik geofizicheskoy stantsii sluzhby puti Zapadno-Sibirskoy dorogi, Novosibirsk (for Fradkin). 2. Starshiy meteorolog geofizicheskoy stantsii, Novosibirsk (for Solopov).



DAVIDOW, B.M.; SOLATOW, N.A.

Large bleck eresties of an sutenstic cement and cemerate plant.

(MERA 9:2)

Avt.der.18 ne.6:13-14 0 '55.

(Cemerate plants)

AMIRKHANOV, N.A.; SOLOPOV, N.S.

Introducing Grambs kotschyana Boiss into cultivation. Biul.Glav. bot.nad no.52:32-34 '64. (MIRA 17:4)

1. Samarkandskiy gosudarstvennyy universitet imeni Alishera Navoi.

SHNEPP, V.B., inzh.; SOLOPOV, N.Ya., inzh.

High-mressure circulation centrifugal compressor. Khim. i neft.
mashinostr. no.1:8-10 J1 '64. (MIRA 17:12)

SOLOPOV, Sergey Georgiyevich

(Moscow Peat Inst), Academic degree of Doctor of Technical Sciences, based on his defense, 11 March 1955, in the Council of the Inst of Mining of the Acad Sci USSR, of his dissertation entitled: "Bases of the complex mechanisation of the mining of peat for fuel by excavation process with the lowering of operating humidity" and Academic title of Professor. Chair: "Mechanics of Peat."

Academic degree and/or title: Doctor of Sciences and Professor

SO: Decisions of VAK, List no. 17, 9 Jul 55, Byulleten' MVO SSR, No. 17, Sept 56, Moscow, pp 9-16, Uncl. JPRS/NY-435

PAUSIN, A.F.; SOKOLOV. A.A.; ANTOHOV, V.Ya.; KURDYUMOV, S.V.; BEL'KEVICH, P.I.; SAVINYKH, A.I.; KARAKIN, F.F.; SOLOPOV, S.G.; YEFIHOV, V.S.; YARIVITSIN, V.I.; RABKIN, B.A.; BABARIN, A.F.; MATVETEV, L.M.; FUNIKOV, S.A.; CHERNENKOV, D.P.; BULAYEVSKIY, N.V.; kandidat tekhnicheskikh nauk; SHINKARINK, K.K.; TSUPROV, S.A.; GINZHURG, L.N.; VASIL'YEV, Yu.K.

Scientific and technical conference on the work of the peat industry of the Ministry of Electric Pewer Stations. Torf.prom. 32 no.2:1-20
(MLRA 8:5)

1. Zamestitel' ministra elektrostantsiy (for Bausin). 2. Zamestitel' direktora VNIITP (for Sokolev). 3. Zamestitel' direktora MTI (for Antonov. 4. Zamestitel' direktor "'krniimesttopprom" (for Kurdyunov).
5. Direktor Instituta torfa AN BSSH (for Bel'kevich). 6. Machal'nik Glavenergozapchasti MES (for Savinykh). 7. Glavmyy inshemer Ivanovske go torfetresta (for Karakin). 8. Zamestitel' direktora MTI (for Sele pov) 9. Upravlyayushchiy Shaturskogo torfotresta (for Yarovitsin). 10. Glavmyy mekhanik Invanosvkogo torfotresta (for Yarovitsin). 11. Glavmyy mekhanik Leningradskogo torfotresta (for Rabkin). 12. Glavmyy inzhener Ozeretsko-Neplyuyevskogo torfotresta (for Matveyev). 14 Rukovoditel' laberatorii VNIITP (for Funikov). 15. Glavmyy inzhener tresta Lentorfostroy (for Che-menkev).

(Continued on next card)

SOLOPOV, S.G., prof.

Technological principles of producing quality piece fuel in developing lew operational moisture peat deposits. Nauch. dokl. vys. shkoly; gor. delo no.1:41-49 58. (MIRA 11:6)

1. Predstavlena kafedroy trofyanoy mekhaniki Moskovskogo torfyanogo instituta. (Peat)

SOLOPOV, S.G., prof., doktor tekhn.nauk

Main problems for research on the complete utilisation of peat and on its deposits. Nauch.dokl.vys.shkoly; gor.delo. no.4:255-257 158.

1. Predstavleno Moskovskim torfyanym institutom. (Peat)

ALEKSBYEV, Ye.T.; APENCHENKO, S.S.; BASOV, A.P.; BAUSIN, A.F.; HERSHADSKIY, L.S.; VELLER, M.A.; GINZBURG L.·N.; GUSEV, S.A.; DANILOV, G.V.; DOLGIKH, M.S.; DRUZHININ, N.N.; YEFIMOV, V.S.; ZAVADSKIY, H.V.; IVASHECHKIN, N.V.; KARAKIN, F.F.; KUZHMAN, G.I.; LOBAHOV, S.P.; MERKULOV, Ya.V.; NIKODIMOV, P.I.; PANKRATOV, N.S.; PYATAKOV, L.V.; RODICHEV, A.F.; SMIRHOV, M.S.; STRUKOV, B.I.; SAVOCHKIN, S.M.; SAMSONOV, N.N.; SINITSYN, N:A.; SOKOLOV, A.A.; SOLOPOV, S.G.; CHELYSHEV, S.G.; SHCHEPKIN, A.Ye.

Fedor Nikolaevich Krylov; obituary. Torf. prom. 35 no.6:32 '58. (MIRA 11:10) (Krylov, Fedor Nikolaevich, 1903-1958)

SOLOPOV, Sergey Georgiyevich, prof., doktor tekhn.nauk; ISLAHKINA, T.F., red.; ATROSHCHERKO, L. Ie., tekhn.red.

[Peat in the national economy] Torf v narodnom khozisistve. Moskva, Izd-vo "Znanie," 1959. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii. Ser.4, Nauka i tekhnika, no.22)

(Peat industry)

SOLOPOV, S.G., prof., doktor tekhn. nauk; BULAYEVSKIY, N.V., dotsent, kand. tekhn. nauk

Intensive drainage of peat deposits by means of deep drainage ditches. Nauch. dokl. wys. shkoly; gor. dele ne.1:15-20 '59. (MIRA 12:5)

1. Predstavlena kafedroy torfyanoy mekhaniki i gidretekhniki Kalininskogo (b. Meskovsk.) torfyanogo instituta. (Peat) (Drainago)

SOLOPOV, S.G., prof.

Controlling the caving-in and sliding of peat n open-pit workings. Isv.vys.ucheb.sav.; gor.shur. no.10: 7 159.

(MIMA 1315)

1. Kalininskiy torfysnoy institut.

(Peat) (Strip mining)

SOLOPOV, S.G., prof., doktor tekhn.nauk; ANISIMOV, P.F., kand.tekhn.nauk Physical and mechanical properties of vacuum-dried peat and properties of vacuum-dried peat and standard to the rational sconomy. Torf.prom. 37

Physical and mechanical properties of vacuum-dried post and prospects for its use in the national economy. Torf.prom. 37 no.2:13-16 *60.

1. Kalininskiy torfyanoy institut.

V.I. Lenin and the 37 no.3:1-6 '60.	development (Peat inc	at of the pea	at industry.	Torf.prom (MIRA 13:9	;	
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	er.					
	V.I. Ienin and the 37 no.3:1-6 '60.	V.I. Lenin and the development 37 no.3:1-6 '60. (Peat inc.)	V.I. Lenin and the development of the per 37 no.3:1-6 '60. (Peat industry)	V.I. Lenin and the development of the peat industry. 37 no.3:1-6 '60. (Peat industry)	V.I. Lenin and the development of the peat industry. Torf.prom 37 no.3:1-6 '60. (Peat industry)	V.I. Lenin and the development of the peat industry. Torf.prom. (MIRA 13:9) (Peat industry)

Statements by V.I. Lenin and the decrees of the Council of People's Commissars and of the Council of Labor and Defense pertaining to peat. Torf. prom. 37 no. 3:27-31 '60. (MIRA 14:1)

(Peat industry)

SOLOPOV, S.G., prof., doktor tekhn.nauk

Complete mechanization and automation of operations, and a continuous peat fuel production cycle. Torf.prom. 38 no.2:11-13 '61. (MIRA 14:3)

1. Kaliniskiy torfyanoy institut.
(Peat industry—Automation)

SOLOPOV, S.C., doktor tekhn. nauk; CORTSAKALYAN, L.O., inah.

Problems of the pneumatic transporation of milled peat in horizontal tubes. Torf. prom. 38 no.6:6-ll '61. (MIRA 14:9)

1. Kalininskiy torfyanoy institut. (Preumatic-Tube transportation)

(Peat—Transportation)

SOLOPOV, S.G., prof.; NAZHESTKIN, B.P., kand.tekhn.nauk

Physicomechanical properties of wibrated peat and prospects for using it in the national economy. Izv. vys. uch. sav.; gor. zhur. 5 no.6:9-12 '62. (MIRA 15:9)

1. Kalininskiy torfyanoy institut. Rekomendovana kafedroy torfyanoy mekhaniki.

(Peat-Testing)

BELOKOPYTOV, I.Ye.; BERRESNOVICH, V.V.; BERSHADSKIY, L.S.; VEYTS, L.F.;

ZHUKOV, A.G.; IVASHECHKIN, N.V.; KUZHMAN, G.I.; LASHNEV, I.A.;

MURASHOV, F.G.: NIKODIMOV, P.I.; PYATAKOV, L.V.; SAMSONOV, N.N.;

SEMENSKIY, Ye.P.; SINITSYN, N.A.; SOLOPOV, S.G.; STRUKOV, B.I.;

STEBIKHOV, M.I.; TSUPROV, S.A.; CHERNOV, A.A.; CHULYUKOV, M.A.

Ivan Aleksandrovich Monakin. Torf. prom. 37 no. 3:37 '60.

(MIRA 14:1)

(Monakin, Ivan Aleksandrovich, 1908-1960)

AEKHAZI, V.I.; ANTONOV, V.Ya.; BELOKOPYTOV, I.Ye.; VARENTSOV, V.S.; GORYACHKIN, F.V.G.; ZYUZIN, V.A.; KRYUKOV, M.N.; KUZHMAN, G.I.; OZEROV, B.N.; RIVKINA, Kh.I.; SEMENSKIY, Ye.P.; SOKOLOV, A.A.; SOLOPOV, S.G.; STRELKOV, S.S.; TYUREMNOV, S.N.; CHULYUKOV, M.A.

Sergei Akekseevich Sidiakin. Torf.prom. 38 no.2:40 '61. (MIRA 14:3) (Sidiakin, Sergei Alekseevich, 1897-1960)

SOLOPOV, Sargey Georgiyevich, prof., doktor tekhn.nauk; MURASHOV,
Mikhail Vasil'yevich, dots., kand. tekhn. nauk; MIRKIN,
Mikhail Abramovich, inzh.[deceased]; ANISIMOV, Pavel
Fedorovich, kand. tekhn. nauk; GORTSAKALYAN, Loris
Oganesovich, kand. tekhn. nauk; NAZHESTKIN, Boris Petrovich,
kand. tekhn. nauk; PESKOV, Vladimir Glebovich, kand. tekhn.
nauk; SAMSONOVA, M.T., red.izd-va; YEZHOVA, L.L., tekhn.red..

[Peat machines; their theory, calculation, and design]Torfianye mashiny; teoriia, raschet i konstruirovanie. [By]S.G.Solopov i dr. Moskva, Vysshaia shkola, 1962. 353 p. (MIRA 16:3) (Peat machinery)

ABKHAZI, V.I.; ANTONOV, V.Ya.; BLYUMENBERG, V.V.; VARENTSOV, V.S.;

VELLER, M.A.; ZYUZIN, V.A.; IVANOV, V.N.; KUZHMAN, G.I.;

LUKIN, A.V.; LATVEYEV, A.M.; CZEROV, B.N.; PAL'TSEV, A.G.;

PEROV, N.P.; PROKHOROV, N.I.; RAKOVSKIY, V.Ye.; SELZISKIY, Ye.P.;

SOLOPOV, S.G.; TYUREMHOV, S.N.; TSUPROV, S.A.; CHULYUKOV, M.A.

Viktor Georgievich Goriachkin; obituary. Torf.prom. 39 no.4:40 162. (MIRA 15:7) (Goriachkin, Viktor Georgievich, 1893-1962)

SOLOPOV, S.G., doktor tekhn.nauk; SHERZHUKOV, B.S., kand.tekh.nauk; DZEKTSER, Ye.S.

Intensive draining of peat bogs. Biul.tekh.-ekon.inform.Gos.nauch.issl.inst.nauch.i tekh.inform. no.11:34-37 *62. (MIRA 15:11)
(Peat bogs) (Drainage)

SCLOPOV, S.d., doktor tekhn.neuk, prof., resturmernyy deyelel neukt i tekhniki MSFSR
section of peat winning and processing. Terf.prom. 40 no.8:4-7 163.
(MRA 17:3)

1. Kalininskiy terfyanoy institut.

AUTHOR: So

Solopov, Ye.N., Engineer

SOV-117-58-8-25/28

Exhibits of the Soviet Union (Eksponaty Sovetskogo Soyuza)

TITLE:

Mashinostroitel', 1958, Nr 8, pp 43-45 (USSR)

ABSTRACT:

PERIODICAL:

In Brussels, several Soviet machines are exhibited which have been presented to the International Jury to be awarded a premium. Among these machines is the automatic line model MR107 (Figure 1). It was produced by the Moskovskiy zavod imeni Ordzhonikidze (Moscow Plant imeni Ordzhonikidze). The machine is used for the production of step rollers of 90 mm in diameter and a length of 380 mm. The coordinate-boring machine with program control model 2A430P (Figure 2) was produced by the Odesskiy zavod imeni Kirova (Odessa Plant imeni Kirov). The program control in this machine increases productivity by 25-75 %. The spindle in this machine has 6 different speeds ranging from 145-2,900 rpm. The 5 electromotors have a total capacity of 1.7 kw. The coordinateboring optical machine of the portal type model LR87 was produced by the Leningradskiy zavod imeni Sverdlova (Leningrad Plant imeni Sverdlov). It has an operating table of 2,200-1,400 mm (Figure 3) with a vertical and a horizontal spindle head. It is used for boring openings in details of up to

Card 1/2

Exhibits of the Soviet Union

SOV-117-58-8-25/28

2,000 kg. The spindle speeds range from 36-1,900 rpm. The vertical 6-spindle automatic hydraulic turning lathe of parallel action, model 1272 (Figure 4), was produced by the Moskovskiy zavod "Krasnyy proletariy" (Moscow Plant "Krasnyy proletariy"). It is used for machining details in mass production. The spindles have 56 speeds ranging from 65-1,440 rpm. The total power of all installed electromotors is 168 kw.

1. Machine tools - USSR

Card 2/2

AUTHOR:

Solopov, Ye.N., Engineer

507-117-58-9-18/22

TITLE:

Exhibits of the Soviet Union (Eksponaty Sovetskogo Soyuza)

PERIODICAL:

Mashinostroitel', 1958, Nr 9, pp 42-44 (USSR)

ABSTRACT:

The article contains descriptions, illustrations and technical characteristics of the following machines exhibited at the Prussels Fair by the Soviet Union: 1) horizontal boring machine with program control of the "262 PR" type, 2) gear-cutting semi-automatic machine of the "528" type: 3) balancing automatic machine of the "9720" type; 4) gear-grinding semi-auto-matic machine of the "5872" type.

There are 4 photos.

1. Machine tools--USSR

Card 1/1

- 26/35

Exhibits of the Soviet Union. At the Brussels World Fair

etc.); ultrasound broaching machine, model 4772, for machining of brittle and hard materials (glass, ceramic, quartz, ruby, germanium, flint, hard alloys, etc.). There

1. Machine tools--USSR

Card 2/2

AUTHOR:

Solopov, Ye.N., Engineer

SOV/117-58-11-33/36

TITLE:

Exhibits of the Soviet Union (Eksponaty Sovetskogo Soyuza)

Mashinostroitel', 1958, Nr 11, pp 43 - 44 (USSR)

ABSTRACT:

PERIODICAL:

A device for program control has been developed for the three-coordinate milling machine model 6N13-PR. The program is recorded on a magnetic tape. The device is based on semiconductors. A device for digital program control of the vertical copying and milling machine model 6M42P of the vertical copying and milling machine model 6M42P is shown in Figure 2. The program is recorded on a perforated tape. The device contains 17 electronic tubes and 300 semi-conductor triodes. The turning lathe model 1K62 can be equipped with a device for digital program control which contains 150 semiconductor triodes. There are 3 photos.

1. Machine tools---Automation 2. Control systems---Equipment

Card 1/1

25(0)

SOV/117-59-3-31/37

AUTHOR:

Solopov, Ye. N., Engineer

TITLE:

The Exhibits of the Soviet Union (Eksponaty Sovets-

kogo Soyuza)

PERIODICAL:

Mashinostroitel', 1959, Nr 3, p 41 (USSR)

ABSTRACT:

The article lists Soviet machine tools that were demonstrated at the Brussels World Fair and the

prizes awarded for some machines.

Card 1/1

SOLOPOVA, A.I.

Method of determining the total amount of fat and wax substances and dyestuffs in a cotton liber of natural color. Izv. AN Turk. (MIRA 16:5) SSR. Ser.biol.nauk no.2:25-30 163.

1. Institut khimii AN Turkmenskoy SSR. (COTTON—ANALYSIS)

POPOV, V.A., assistent; SOLOPOVA, K.Ye., assistent; YUSHKOV, P., kand.fiz.-matem.nauk, prof.

Determining natural frequencies of a shaft with a disk. Izv.vys. ucheb.zav.; mashinostr. no.6:71-77 '62. (MIRA 15:11)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.
(Shafting--Vibration)

SOLOPOVA, POLINA

Track Athletics

Un the track. Mol. kolkh. no. 7, 1952

Monthly List of Russian Accessions, Library of Con ress Ecvember 1952 UNCLAS INTED

COUNTRY USSR CATEGORY Pharmacology and Toxicology. Chemotherapeutical Proparations. Antibiotics RZhBiol., No. 1 1959, No. 4654 AP3. JOHR. AUTHOR Karakhodzhayov, B.; Solopova, Yu.S. MST. TITLE : Treatment of Dysenteric Children with Levomycetin ORTG. PUB. : Med. zh. Uzbekistana, 1957, No.4, 29-31 ARSTRACT : No abstract 1/1 CARD:

SOLOREVA, S.A.; TRACHERRO, V.K. (Riyev)

Vasilii Dmitrievich Shervinskii. Vrach.delo no.3:323-324 Mr
(MIRA 13:6)

160.

(SHERVIESKII, VASILII DMITRIEVICH, 1850-1941)

Blood supply for human teeth. Probl. stom. 5:38 '86 '60.

(MINA 15:2)

1. Kiyevzkiy meditsinskiy institut.

(TEETH_BLOOD SUPPLY)

200 thousand kilometer run from ZIS -150 trucks before servicing. Avt. transp. 33 no.5:38 My '55. (MIRA 8:8) 1. Direktor transportnoy kontory Zaporoshskogo oblpotrebsoyuma. (Motor trucks--Maintenance and repair)

EL'KINA, Yu.A.; SOLOSHCHEVA, V.M.; RAKHMANCHIK, G.I.

Colienteritis in young children. Zdrav. Belor. 5 no.8: 141-47 (MIRA 12:10)

1. Iz kafedr infektsionnykh bolezney Minskogo meditsinskogo instituta (zaveduyushchiy - prof.A.N.Filippovich), Belorusskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy - dotsent N.V.Bondareva) i Minskogo Instituta epidemiologii, mikrobiologii i gigiyeny (direktor V.I.Votyakov).

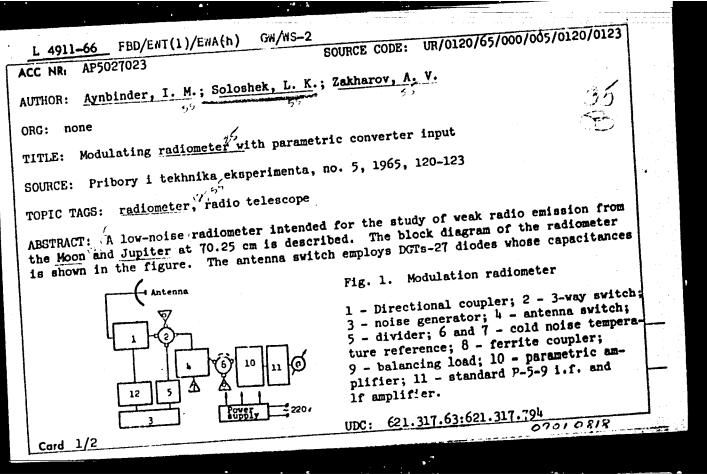
(ESCIERICHIA COLI) (HITESTIMES--DISEASES)

BONDAREVA, N.V.; SOLOSHCHEVA, V.M.

Clinical aspects of influenza. Zdrav. Bel. 9 no.8:15-18 Ag*63 (MIRA 17:3)

1. Iz kafedry infektsionnykh bolezney Belorusskogo gosudarstvennogo instituta usovershenstvovaniya vrachey (zav. - prof. M.N.Bessonova) i Minskoy infektsionnoy bolinitsy (glavnyy vrach Z.G. Alikina).

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310003-0



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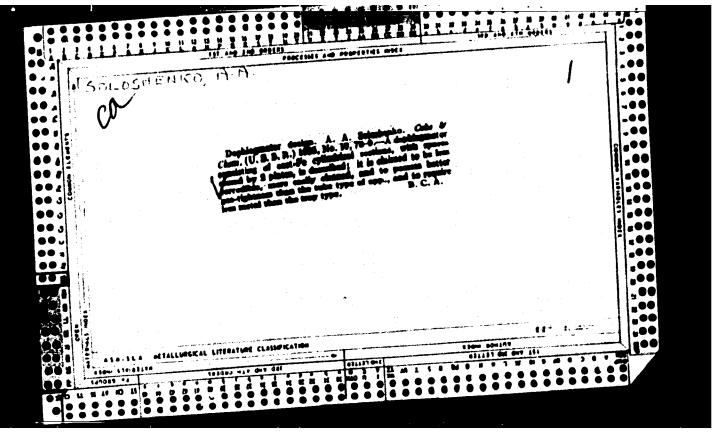
ACC NR: AP5027023

are compensated by inductances. In the off position, the transmission loss through the switch is 18 db; in the on position, it is 0.2-0.3 db; VSWR = 1.21:1. It has a 3-db bandwidth of 15%, and switching time is 15-20% of the modulating period. The ferrite directional coupler (8) is a Y-circulator with 1.6-db transmission loss in the forward direction and 17.3 db in the backward direction; VSWR = 1.12:1. In order to provide maximum sensitivity, additive noise is applied through the attenuator (12) to the antenna arm, balancing the temperature of the arms. The parametric amplifier design assures maximum sensitivity by maximizing the ratio of its noise temperature to the bandwidth, keeping the regeneration factor low (0.5-0.6). The parametric converter converts the input signal to the i.f. range with the aid of a klystron oscillator with a 9228-Mc pump frequency. An additional 398-Mc BFO and a balanced mixer form the output signal. Converter noise temperature is 150K with 15-Mc bandwidth; however, in order to assure proper coupling with coupler 8, the converter temperature (allowing for losses in the coupler) is 300K. Orig. art. has: 2 figures.

SUB CODE: EC, M/SUBM DATE: 14Jul64/ ORIG REF: 001/ ATD PRESS: 4/36

Card 2/2

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310003-0



5.2000,18.3200

77498 sov/80-33-1-7/49

AUTHORS:

Kireyeva, M. V., Soloshenko, A. A.

TITLE:

Concerning the Role of Calcium Oxide in the Oxidation Process of Chromite Charges

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 1, pp 43-49

(USSR)

ABSTRACT:

Investigation of the oxidation of chromite ores with lime in rotary kiln roasting conditions showed that Cr reacts with CaO to form a compound soluble in acid which, according to chemical, microscopic, and X-ray analysis, corresponds to the chromato-chromite 9CaO.

4cro3.cr203:

 $3(MgO \cdot Cr_2O_3) + 9CnO + 3O_2 = 9CaO \cdot 4CrO_3 \cdot Cr_2O_2 + 3MgO_1$

Card 1/2

CIA-RDP86-00513R001652310003-0

Concerning the Role of Calcium Oxide in the Oxidation Process of Chromite Charges

77498 SOV/80-33-1-7/49

The above chromato-chromite reacts quickly and at low temperature with soda and gives $Na_{2}CrO_{h}$:

 $9CaO \cdot 4CrO_3 \cdot Cr_2O_3 + 6Na_2CO_3 + \frac{3}{2}O_2 = 6Na_2CrO_4 + 9CaO + 6CO_3$.

A new method of roasting chromite ores is advanced by the authors. The ore is mixed with lime and 3% soda (based on the weight of the charge), and roasted in a rotary kiln at 1,000° C. The clinker thus obtained is mixed with soda in the stoichiometric proportion necessary for the formation of sodium monochromate, and the mixture is roasted again at 600-700° C. There are 7 tables; 3 figures; and 6 references, 2 U.K., 4 Soviet. The U.K. references are: W. F. Ford, W. F. Rees, Trans. Brit. Ceram. Soc., 47, 6, 207 (1948); W. F. Ford, J. White, ibid., 48, 10, 417 (1948).

SUBMITTED: Card 2/2 February 16, 1959

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310003-0

18.3200

77637 80V/80-33-2-12/52

AUTHORS:

Kireyeva, M. V., Soloshenko, A. A.

TITLE:

Concerning the Composition of Chromite Charges

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2, pp

337-340 (USSR)

ABSTRACT:

The minimum amount of CaO required for binding SiO₂, Al₂O₃, and Fe₂O₃ during the roasting of chromites was usually determined by formula (I):

 $CnO = 1.88 SiO_2 + 0.91 Al_2O_3 + 0.82 Fe_2O_3$

(1)

where CaO is amount of calcium oxide (in g) per 100 g of ore; Al_2O_3 , SiO_2 , and Fe_2O_3 are the percentual contents of the oxides in the ore. It was assumed that CaO is necessary only to neutralize these acid

card 1/3

Concerning the Composition of Chromite Charges

77637 80V/80-33-2-12/52

oxides which form, with CaO, the compounds $^4\text{CaO} \cdot \text{Al}_2\text{O}_3$; $^5\text{CaO} \cdot ^3\text{Al}_2\text{O}_3$; and $^6\text{CaO} \cdot ^5\text{SlO}_2$. The authors established previously (this journal 1960, abstract 77498) that CaO reacts also with chromium and forms an acid-soluble chromato-chromite $^6\text{CaO} \cdot ^4\text{CrO}_3 \cdot ^6\text{Cr}_2\text{O}_3$ which combines easily with soda and gives sodium chromate. Study of the plots of the degree of chromium oxidation (in ^6CaO) azainst the ratio $^6\text{CaO}/^6\text{Cr}_2\text{O}_3$ at various roasting times showed that the additional amount of CaO needed for the reaction with chromium is $^6\text{CaO} \cdot ^6\text{Cr}_2\text{O}_3$ where $^6\text{Cr}_2\text{O}_3$ is content of this oxide in the ore (in ^6Ce). Formula (1) should be replaced, therefore, by formula (2):

 $CnO = 1.88 SiO_4 + 0.91 Al_2O_3 + 0.82 Fe_2O_3 + 0.31 Cr_2O_3$

(2)

Card 2/3

which is valid for charges containing 16.5-20.0% cr203.

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310003-0

Concerning the Composition of Chromite Charges

77637 **\$0V/8**0-33-2-12/52

There are 3 tables; 4 figures; and 1 Soviet reference.

SUBMITTED:

June 2, 1959

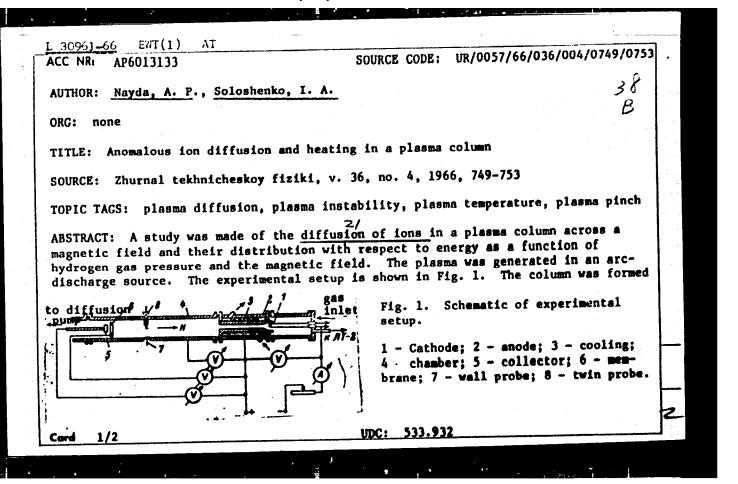
Card 3/3

SOLOSHENKO, A.A.; VIL'NYANSKIY, Ya.Ye.

Kinetics of hydrogen chloride oxidation on a chromium oxide catalyst. Kin. i kat. 5 no.5:881-887 S-0 64. (MIRA 17:12)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut.

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310003-0



L 30961-66

ACC NR: AP6013133

by letting the plasma flow along the magnetic field in an insulated copper chamber (44 mm in diameter) through an aperture (10 mm in diameter and 150 mm long) in the anode of the source. The column thus obtained hits an insulated collector (15 mm in diameter) placed 30 cm behind the outlet aperture of the anode. An insulated copper membrane (inside diameter 15 mm, outside diameter 40 mm) was mounted 1 cm ahead the collector. The chamber was pumped at a rate of 200 1/sec. The residual gas pressure in the chamber was about 10-6 mm Hg. Pressure in the source was kept in the range 3.10-2-10-3 mm Hg. The average pressure in the chamber was proportional to the pressure in the source and approximately one order of magnitude lower. Both the plasma source and the chamber were subjected to the homogeneous magnetic field. The magnetic field strength was in the range 180-1500 oe. The ion diffusion in the plasma column was measured by a direct method developed earlier by I. A. Vasil'yeva et al. Constant current and voltage were used in all measurements. It was found that by reducing either the gas pressure or the magnetic field strength below a certain critical value an unstable plasma column is obtained leading to an anomalous ion diffusion and to a sharp rise in the transverse ion temperature. It was noted that before the onset of instability, the Larmor diameter of ions was [JR] close to that of the plasma column. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 12Apr65/ ORIG REF: 005/ OTH REF: 001/ ATD PRESS: 4239

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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652310003-0

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83006

s/181/60/002/008/025/045 B006/B063

24.4100

Soloshenko, I. I.

AUTHOR: TITLE:

The Dependence of the Decrement of Damping on the Number

of Cycles in Fatigue Tests

PERIODICAL:

Fizika tverdogo tela, 1960, Vol. 2, No. 8,

pp. 1864 - 1868

TEXT: The investigations described in the present paper were performed with natural rock-salt crystals 30x10x2 mm large, which had previously been annealed for 2-2.5 days at 650°C. They were arranged as described in the paper of Ref. 4 and schematically shown in Fig. 1, after which they were examined at room temperature and a frequency of about 1 cps. The decrement, δ , was determined from the relation δ = ln 2/n, where n denotes the number of vibrations occurring until the amplitude has dropped to half its value. Control measurements of the decrement were carried out every 24 hours during the first 40 days and later every four to five hours. Results of the measurement of sample No. 90 are

Card 1/3

83006

The Dependence of the Decrement of Damping on 8/181/60/002/008/025/045 the Number of Cycles in Patigue Tests B006/B063

shown in Fig. 2 (δ as a function of the number of cycles). Within 45 days, the crystal was subjected to about 4.10 bending vibrations of constant amplitude until it broke. During the first 2,000 vibrations b decreased rapidly; later, it remained almost unchanged. Next, the results of other authors are discussed, and the results of the present work are summed up: 1) The diagram obtained is a complete representation of the dependence of the decrement of damping on the number of vibrations, from the first vibrations until the breaking of the rock-salt crystal. 2) This diagram permits the determination of the fatigue limit (where the decrement of damping shows he first discontinuity in the diagram). 3) On the basis of the laws governing the change in the decrement of damping with progressing fatigue it is possible to divide this process into five stages: 1) solidification; 2) continuous work in the solid state; 3) formation of cracks; 4) development of cracks; 5) breaking. Finally, the author thanks R. I. Garber and I. A. Gindin for their interest in this work and discussions. L. A. Glikman, V. A. Zhuravlev, T. N. Snezhkova, M. A. Bol'shanina, and V. Ye. Panin are also mentioned. There are 3 figures and 9 Soviet references.

Card 2/3

83006

The Dependence of the Decrement of Damping on the Number of Cycles in Fatigue Tests S/181/60/002/008/025/045 B005/B063

ASSOCIATION: Khar kevskiy pedagogicheskiy institut fizicheskogo vospitaniya im. G. S. Skoveredy (Khar kev Pedagogical Institute of Teaching of Physics imeni G. S. Skovereda)

SUBMITTED: January 11, 1950

Card 3/3

S/126/60/010/006/020/022 E201/E491

AUTHORS:

Garber, R.I. and Soloshenko, I.I.

TITLE:

The Dependence of the Damping Decrement on the Amplitude of Elastic Vibrations and the Plastic

Deformation of Overstressed Micro-Regions

ì

PERIODICAL: Fizika metallov i metallovedeniye, 1960, Vol.10, No.6,

The authors show that changes of the damping decrement (5) indicate that hardening of crystals by plastic deformation at large vibration amplitudes (a) does not preclude hardening at small For each effective stress (o) there is a set of weak points which can be cured by plastic deformation, verify these theoretical conclusions, the damping decrement was measured at various values of N (the total number of vibrations) and o for rocksalt monocrystals and polycrystalline plates of All measurements were carried out at 1 c/s at The results for rocksalt (Fig.1 and 2) and commercial lead. lead (Fig.3), plotted in the form of $\delta(N)$ curves at various values room temperature. of o, confirmed the conclusions arrived at theoretically.

Card 1/2

5/126/60/010/005/020/022 E201/E491

The Dependence of the Damping Decrement on the Amplitude of Elastic Vibrations and the Plast.c Deformation of Overstressed Micro-Regions

are 3 figures and 6 references: 5 Soviet and 1 non-Soviet.

ASSOCIATION: Khar¹kovskiy gosudarstvennyy pedagogicheskiy institut fizicheskogo vospitaniya im. G.S.Skovorody (Khar¹kov State Pedagogical Institute for Physical

Training imeni G.S. Skovoroda)

SUBMITTED: June 7, 1960

Card 2/2

GARBER, R.I.; SOLOSHENKO, I.I.

Effect of annealing on the decrease in the damping of an alternating elastic-plastic flexure. Fiz. met. i metalloved. 12 no.1:153-155
J1 '61. (MIRA 14:8)

1. Khar'kovskiy pedagogicheskiy institut imeni G.S.Skovorody. (Metal crystals) (Deformations (Mechanics))

8/0058/64/000/006/2052/2052

ACCESSION NR: AR4044007

SOURCE: Ref. zh. Fizika, Abs. 6E388

AUTHOR: Garber, R. I.; Soloshenko, I. I.

TITLE: The accumulation of microflaws during elastico-plastic alternating bending

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat, 1963. 80-84

TOPIC TAGS: microflaw, elasticoplastic bending, alternating bending, crystal, transparent crystal

TRANSLATION: Studies the regularities of the accumulation, in transparent crystals. during elastico-plastic bending, of dislocations and flaws that scatter light, and investigates the influence of this accumulation on internal friction. Investigates NaCl and LiF single crystals preliminarily annealed at 65°C for 40 and 25 hours, respectively. The amplitude of the stress was 200 g/mm². The obtained curves of the dependence of the logarithmic decrement and the value of the photocurrent (transparency) I on the number of bending oscillations of the sample N

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ACCESSION NR: AR4044007

show that with increasing N the integral scattering of white light increases. Saturation in the change of these properties is observed after 10° cycles. During transparency with unchanged 5°.

SUB CODE: SS, ME

ENCL: 00

Card 2/2

8/0137/64/000/005/1049/1049

ACCESSION NR: AR4041609

SOURCE: Ref. zh. Metallurgiya, Abs. 51289

AUTHOR: Garber, R. I.; Soloshenko, I. I.

TITLE: Accumulation of microdefects during elastico-plastic reverse bend

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat,

1963, 80-84

TOPIC TAGS: microdefect, crystal, elasticoplastic bend, reverse bend

TRANSLATION: On special installation, a diagram and description of which are given, regularities are studied of accumulation in transparent crystals during elasticoplastic bend of the dislocations and defects scattering light, and the influence of accumulation of defects on internal friction. Working frequency of forced oscillations of samples amounted to ~1 cps. Integral light scattering was determined on electronic installation with FEU-18A photomultiplier. Intensity of light scattering was measured with motionless sample — during stops of pendulum.

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L 00734-66 EVT(m)/T/EWP(t)/EVP(b)/EVA(c) JD

ACCESSION NR: AP5022700

UR/0181/65/007/009/2655/2659

AUTHOR: Garber, R. I.; Soloshenko, I. I.; Khaldey, O. A.

TITLE: Relaxation of critical stresses of motion and critical stresses of multiplication of dislocations with repeated bending

SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2655-2659

TOPIC TAGS: lithium fluoride, sodium chloride, plastic deformation, bend test, bending stress, stress relaxation

ABSTRACT: Critical stresses of multiplication and motion of dislocations are studied in lithium fluoride and sodium chloride specimens as functions of the number of loading cycles, the temperature and the loading method. It is found that there is a reduction in the critical stress with an increase in the number of cycles. For LiF, one-time loading is associated with a stress of 600, ten times loading with 250, and 100 times with 70 g·mm². The corresponding values for NaCl are 300, 150 and 50 g·mm⁻². Mechanical strength increases with the number of cycles. This is shown by a gradual reduction in the number of regenerated dislocations and by a decrease in the damping constant of elastoplastic vibrations. Holding in the unloaded state at room temperature for 150 seconds after each loading cycle complete-

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ly nullifies the effect of repeated bending. The effect is also cancelled by a frequency of 1 cps at a high temperature (300°C). It is assumed that the multiple loading effect is caused by separation of the dislocations from barriers. The energy of activation for effecting this separation is ~0.4 ev. The results show that the repeated action of small stresses can cause plastic deformations if the pauses are short enough to prevent reversal of the process. Orig. art. has: 10 figures, 1 table.

ASSOCIATION: Khar'kovskiy gosudarstvennyy pedagogicheskiy institut im. G. S. Skovorody (Kharkov State Pedagogical Institute)

SUBMITTED: 09Mar65

ENCL: 00

SUB CODE: AS

NO REF SOV: 003 OTHER: 002

APPROVED FOR RELEASE: 08/25/2000

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Role of fresh water animals in the epidemiology of leptospirosis.

Ahur.mikrobiol.epid. i immun. 28 no.6:58-61 Je 157. (MIT. 10:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalai ANN public.

(LEPTOSFIROSIS, transmission, public fresh water animals (Hus))

(AHUMLE, fresh water, transm. of leptospirosis (Hus))
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SOLOSHENKO, I.Z.

Role of blood-sucking arthropods in the transmission and preservation of pathogenic Leptospira. Report No.1: Role of blood-sucking arthropods in the transmission and preservation of the causative agent of Vasilev-Weil's disease. Zhur.mikrobiol.epid. i immun. no.1:22-27 Ja '59. (MIRA 11:4)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(WEILS DISHASE, transmission, by arthropods (Rus) (ARHTROPODS, Weil's dis. transm. (Rus)

SOLOSHENKO, I.Z.; KHORAVA, G.V.

Carriage of Leptospirae by dogs in the Maritime Zone of the Abkhazian ASSR. Zhur. mikrobiol. epid. i immun. 31 no.7:140-141 J1 '60. (MIRA 13:9)

1. Iz Instituta epidemiologii i mikrobiologii im. Gamalei AMN SSSR i Gudautskoy infektsionnoy bol'nitsy.

(ABICHAZIA—LEPTOSPIROSIS)

(DOGS AS CARRIERS OF DISEASE)

SOLOSHENKO, I.Z.; KHORAVA, G.V.

Role of cattle in the epidemiology of leptospirosis icterohemorrhagiae. Zhur.mikrobiol.epid.i immun. 32 no.2:79-80 F '61. (MIRA 14:6)

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SOLOSHENKO, I.Z.

Role of bloodsucking arthropods in transmitting and preserving pathogenic lertospirae. Report No. 2: Relation of bloodsucking arthropods to the pathogens of anicteric leptospirosis. Zhur. mikrobiol., epid.i immun. 33 no.4:31-34 Ap '62. (MIRA 15:10)

1.Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. (INSECTS AS CARRIERS OF DISEASE) (LEPTOSPIROSIS)